

IN THE CLAIMS:

1.-39. (Cancelled)

40. (Currently Amended) A condition data collecting system for promoting a growth or health of living organisms through the collective efforts of a plurality of separate and independent research sources that can each collaboratively perform research with a separate controlling system of a culture comprising:

5 multiple separate controlling systems, that can each promote a growth or health of living organisms of a culture by controlling at least a light irradiated on the living organisms culture, and an information processing system that is communicably connected with each of the separate controlling systems, wherein

the each of the multiple controlling systems includes an environment controlling unit including at least a light irradiating unit for providing light of a characteristic to promote growth of a specific living organism the culture,

the information processing system includes

an environmental data receiving part that receives relevant environmental data which is data concerning an environment of the living organism culture including data on the light for promoting which will promote a growth irradiated on or health of the living organism culture received from at least a first controlling system;

an environmental data administrating part that administers the environmental data received by the environmental data receiving part to provide a communicable format of environmental data that can be distributed by the information processing systems to the other separate controlling systems;

an environmental data delivering part that obtains the environmental data administered by the environmental data administrating part and delivers the environmental data at least from the first controlling system to a second controlling system in the multiple separate controlling systems when the environmental data delivering part receives an environmental data request signal from the second controlling system to deliver the environmental data from the first controlling system to the second controlling system;

a royalty data producing part that produces royalty data ~~which is~~ to determine a value to be received in return for disclosing the environmental data originally produced by any of the multiple separate controlling systems including the first controlling system to any of the multiple separate controlling systems including the second controlling system, in relationship to a controlling system ~~in relationship to a controlling system~~ identifier that identifies the first one of the controlling system systems when the environmental data is received or delivered;

a state data receiving part that receives state data including image data of living organisms and the culture a state of a midstream process;

a state data administrating part that administers the state data received by the state data receiving part;

a state data delivering part that delivers a part or all of the state data administered by the state data administrating part to the at least second controlling system; and

an assessment data obtaining part that obtains the assessment data showing an assessment of an effectiveness ~~[[or]]~~ and uniqueness of the environmental data administered by the environmental data administrating part, wherein

the royalty data producing part produces the royalty data which is based on a content of the assessment data obtained by the assessment data obtaining part to determine a royalty value for the data.

45 wherein each of the multiple separate controlling systems can deliver and/or receive data that promotes a growth or health of a living organism in return for a royalty payment from the information processing system.

41. (Previously Presented) The condition data collecting system of claim 40 wherein the information processing system further includes:

 a payment data obtaining part that obtains payment data concerning payment or a guarantee of payment in compensation for the environmental data delivered in accordance with a
5 controlling system identifier that identifies the second controlling system requesting the environmental data, wherein

 the environmental data delivering part obtains the environmental data from the environmental data administrating part and delivers the environmental data to the other controlling system identified by the controlling system identifier provided that the payment data
10 obtaining part has obtained the payment data; and

 the royalty data producing part produces the royalty data in relationship to the controlling system identifier of the first controlling system provided that the payment data obtaining part has obtained the payment data..

42. (Previously Presented) The condition data collecting system of claim 40 wherein the royalty data producing part produces the royalty data in accordance with the specific environmental datum or data delivered by the environmental data delivering part.

43. (Previously Presented) The condition data collecting system of claim 40 wherein the royalty data producing part produces the royalty data in accordance with an amount of environmental data used.

44. (Previously Presented) The condition data collecting system of claim 40 wherein the information processing system further includes:

an assessment data obtaining part that obtains assessment data showing an assessment of uniqueness or effectiveness of the environmental data administered by the environmental data administrating part, wherein

the environmental data delivering part delivers the environmental data provided that contents of the assessment data obtained by the assessment data obtaining part meets a predetermined requirement.

45. (Cancelled)

46. (Previously Presented) The condition data collecting system of claim 40 wherein the environmental data delivering part delivers source information indicating the first controlling system as being the source of the environmental data, with this information being attached to the environmental data delivered to the other controlling system only when the content of the information concerning the permission to disclose the source, which is received from the first controlling system, is designated to be disclosed.

47. (Currently Amended) The condition data collecting system of claim 40 wherein the state data includes image data obtained by a camera imaging the relevant living organism culture.

48. (Currently Amended) The condition data collecting system of claim 40 wherein the state data delivering part delivers the camera image data included in the state data in the form of sequential images of the living organism culture.

49. (Currently Amended) The condition data collecting system of claim 40 wherein the information processing system further includes:

a fundamental environmental data storing part that stores a fundamental environmental datum or data in advance; and

5 a fundamental environmental data delivering part that delivers the fundamental environmental data to each of the multiple controlling systems relative to a common living organism culture identified by an identifier data.

50. (Currently Amended) The condition data collecting system of claim 40 wherein the living organism culture is a plant.

51. (Currently Amended) The condition data collecting system of claim 40 wherein the controlling system includes:

a request signal transmitting part that transmits a request signal to the information processing system requesting delivery of environmental data that is specified by an environmental data identifier;

an environmental data receiving part that receives the environmental data delivered by the information processing system; and

a control means controlling part that controls one or multiple environment control means to control the environment of the living organism culture, based on the environmental data.

52. (Currently Amended) The condition data collecting system of claim 49 wherein the controlling system further includes:

an environment measuring means that measures values of the environment of the living organism culture including humidity, CO₂ and temperature;

5 a measured environmental data receiving part that receives measured environmental data indicating measured values of the environment of the living organism culture from the environment measuring means that measures the relevant environment.

53. (Currently Amended) The condition data collecting system of claim 40 wherein the controlling system further includes:

a living organism state measuring means that measures the state of growth or health of living organisms ~~of the culture~~ including camera images;

5 a state data receiving part that receives state data as being data concerning the growth or health of the living organism ~~of the culture~~ from the living organism state measuring means; and

a state data transmitting part that transmits the state data received by the state data receiving part to the information processing system.

54. (Currently Amended) The condition data collecting system of claim 53 wherein the living organism state measuring means comprises an imaging means that images a part or all of the living organism culture.

55. (Previously Presented) The condition data collecting system of claim 54 wherein the environmental data delivered by the information processing system is so arranged as to be

incapable of being copied externally and further includes a judgment unit to determine if the source of the environmental data can be disclosed.

56. (Previously Presented) The condition data collecting system of claim 40 wherein the light irradiating means comprises an arrangement multiple LEDs of at least one red LED, blue LED, green LED, white LED, infrared LED, and ultraviolet LED or any combination thereof.

57. (Previously Presented) The condition data collecting system of claim 40 wherein the environmental data transmitting part transmits information concerning the permission to disclose the source information, that indicates which controlling system the environmental data is delivered from, in order to judge whether or not the source information is
5 to be attached when the environmental data is delivered from the information processing system to the other controlling system.

58. (Previously Presented) The condition data collecting system of claim 40 wherein the environment controlling means further includes a temperature controlling means including a heater or a window open-close mechanism.

59. – 60. (Cancelled)